5

10

15

20

Phenoscope and Phenobase

ABSTRACT OF THE DISCLOSURE

The present invention describes a system and method of using individuals' behavioral and environmental information in conjunction with their gene sequences to find drug candidates and drug targets. Individuals designated as having a high risk for developing a particular disease are each given a remotely programmable apparatus. Queries related to the individuals' behavior and environment are sent from a server to the remotely The individuals' responses to the programmable apparatuses. queries and any physiological information in the form of The process of measurements are sent back to the server. collecting individuals' information can take place over a long period of time to ensure accurate data and to allow researchers to observe progression of the disease. A data mining program on behavioral individuals' server analyzes the environmental information, as well as their gene sequences. behavioral gene sequences, or in Differences in environmental factors between individuals who show a severe disease phenotype and those who show a mild severe disease phenotype can then be distinguished and used to develop new drug candidates, targets, or general treatments.